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HBG1 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13696c

Specification

HBG1 Antibody (Center) Blocking peptide - Product Information

Primary Accession P69891

HBG1 Antibody (Center) Blocking peptide - Additional Information

Gene ID 3047

Other Names
Hemoglobin subunit gamma-1, Gamma-1-globin, Hb F Agamma, Hemoglobin gamma-1 chain, Hemoglobin gamma-A chain, HBG1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13696c was selected from the Center region of HBG1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HBG1 Antibody (Center) Blocking peptide - Protein Information

Name HBG1

Function
Gamma chains make up the fetal hemoglobin F, in combination with alpha chains.

Tissue Location
Red blood cells.

HBG1 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

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HBG1 Antibody (Center) Blocking peptide - Images

HBG1 Antibody (Center) Blocking peptide - Background

The gamma globin genes (HBG1 and HBG2) are normallyexpressed in the fetal liver, spleen and bone marrow. Two gammachains together with two alpha chains constitute fetal hemoglobin(HbF) which is normally replaced by adult hemoglobin (HbA) atbirth. In some beta-thalassemias and related conditions, gammachain production continues into adulthood. The two types of gammachains differ at residue 136 where glycine is found in the G-gammaproduct (HBG2) and alanine is found in the A-gamma product (HBG1).The former is predominant at birth. The order of the genes in thebeta-globin cluster is: 5'-epsilon -- gamma-G -- gamma-A -- delta-- beta--3'.

HBG1 Antibody (Center) Blocking peptide - References

Zhou, D., et al. Nat. Genet. 42(9):742-744(2010)Miccio, A., et al. Mol. Cell. Biol. 30(14):3460-3470(2010)Nuinoon, M., et al. Hum. Genet. (2009) In press :da Cunha, A.F., et al. Hemoglobin 33(6):439-447(2009)Hamid, M., et al. Hemoglobin 33(6):428-438(2009)